

Comparisons of Job Characteristics

Focus Occupation: [Inspectors, Testers, Sorters, Samplers, and Weighers \(51-9061\)](#)

Associated Occupation: [Engineering Technicians, Except Drafters, All Other \(17-3029\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 61

Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Engineering and Technology	5.7	17.6	4.2	<<	Extensive education and/or training may be required
Mathematics	9.2	16.6	8.0	<<	Extensive education and/or training may be required
Mechanical	6.8	16.6	5.4	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	16.2	6.0	<<	Extensive education and/or training may be required
Design	5.2	15.1	4.3	<<	Extensive education and/or training may be required
Production and Processing	6.0	13.3	11.9	<	Expanded education and/or training may be required
Physics	4.3	12.9	2.9	<<	Extensive education and/or training may be required
Telecommunications	3.9	7.4	2.1	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 66

Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)

Associated Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operation Monitoring	6.6	12.1	8.0	<<	Extensive development of skills in this area may be required

Quality Control Analysis	5.9	11.5	7.9	<<	Extensive development of skills in this area may be required
Mathematics	6.2	10.8	5.1	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	10.6	5.5	<<	Extensive development of skills in this area may be required
Equipment Maintenance	3.5	10.4	1.2	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	9.4	1.5	<<	Extensive development of skills in this area may be required
Repairing	3.4	9.4	1.0	<<	Extensive development of skills in this area may be required
Technology Design	2.6	7.0	2.4	<<	Extensive development of skills in this area may be required
Installation	1.7	6.2	1.2	<<	Extensive development of skills in this area may be required
Programming	2.2	4.9	2.0	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 91			
Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061) Associated Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Visualization	7.5	12.3	7.0	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	12.0	8.4	<<	Extensive improvement in abilities may be required
Mathematical Reasoning	6.3	11.2	4.7	<<	Extensive improvement in abilities may be required
Flexibility of Closure	7.8	10.5	8.5	<	Some improvement in abilities may be required
Perceptual Speed	7.4	10.3	7.1	<<	Extensive improvement in abilities may be required
Number Facility	6.3	10.2	4.8	<<	Extensive improvement in abilities may be required
Visual Color Discrimination	6.4	9.6	6.6	<<	Extensive improvement in abilities may be required
Memorization	5.6	7.5	3.3	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

There are no common work activities.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 86

Focus Occupation: Inspectors, Testers, Sorters, Samplers, and Weighers (51-9061)
Associated Occupation: Engineering Technicians, Except Drafters, All Other (17-3029)

Tools and Technologies	Exclusivity
Business function specific software	1
Computer printers	2
Computers	1
Content authoring and editing software	1
Electrical measuring and testing equipment	7
Electrochemical measuring instruments and accessories	9
Electronic and communication measuring and testing instruments	14
Fluid mechanics equipment	11
Indicating and recording instruments	2
Industry specific software	1
Laboratory environmental conditioning equipment	24
Length and thickness and distance measuring instruments	2
Lifting equipment and accessories	3
Light and wave generating and measuring equipment	4
Metals and metallurgy and structural materials testing instruments	15
Non destructive examination equipment	13
Power conditioning equipment	33
Pressure measuring and control instruments	10
Pumps	9
Special tooling fixtures	16
Spectroscopic equipment	10
Temperature and heat measuring instruments	6
Viewing and observing instruments and accessories	4
Weight measuring instruments	7

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.